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**United States Patent** [19]**Garfield et al.**[11] **Patent Number:** **5,470,847**[45] **Date of Patent:** **Nov. 28, 1995**[54] **OVULATION CONTROL BY REGULATING  
NITRIC OXIDE LEVELS WITH ARGININE  
DERIVATIVES**[75] **Inventors:** **Robert E. Garfield**, Friendswood;  
**Chandrasekhar Yallampalli**, Houston,  
both of Tex.[73] **Assignee:** **Board of Regents, the University of  
Texas System**, Austin, Tex.[21] **Appl. No.:** **165,309**[22] **Filed:** **Dec. 10, 1993**[51] **Int. Cl.<sup>6</sup>** ..... **A61K 31/195; A61K 31/56**[52] **U.S. Cl.** ..... **514/171; 514/561; 514/563;  
514/565; 514/841; 514/843**[58] **Field of Search** ..... **514/561, 563,  
514/565, 841, 843, 171**[56] **References Cited****U.S. PATENT DOCUMENTS**4,851,385 7/1989 Roeske ..... 514/15  
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*Brit. J. Med., Brit. Med. J.*, 1224-1226 (1991).*Primary Examiner*—Theodore J. Criares  
*Attorney, Agent, or Firm*—Arnold, White & Durkee[57] **ABSTRACT**Inhibition of ovulation in a female may be achieved by  
administering an arginine derivative which acts as a nitric  
oxide synthase inhibitor, alone or in combination with one or  
more of a progestin, an estrogen, and an LH-RH antagonist,  
thereby preventing conception.**19 Claims, 1 Drawing Sheet**